Light Management Systems: Energy Savings.

Complete LMS range for daylight-dependent
and presence-dependent lighting.

SEE THE WORLD IN A NEW LIGHT   **OSRAM** OSRAM

Good for our climate and good for your business: LMS Energy Savings.

Constantly rising energy costs and a growing focus on climate protection are driving the need for energy savings more and more into the forefront. Particularly in applications with high energy consumption, energy-efficient lighting solutions are assuming an increasingly important role.

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Only as much light as needed.

In daylight-dependent and motion/presence-dependent lighting control systems, the available daylight in a room is supplemented as needed by artificial light from luminaires with dimmable electronic ballasts. Light sensors detect the lighting level comprising artificial light and natural daylight. The groups of luminaires are controlled according to their position in the room and the amount of available daylight, so that a predefined lighting level is maintained. Users can adjust the lighting at any time to a level that meets their specific needs. If a motion/presence sensor is also used, the lighting is automatically switched on only when someone enters an empty room or if someone is in the room. This significantly increases the potential energy savings even further.

For intelligent luminaires to lighting solutions for open-plan offices.

In the LMS Energy Savings sector, OSRAM offers alternative solutions to cover a variety of requirements.

- **Touch DIM®**
  (Single luminaires)
- **MULTIeco**
  (Single and group offices)
- **MULTI 3**
  (Strip lighting, hallways)
- **Sensoren**
  (Sensors for stand-alone solutions)

Simple dimming without a controller or dimmer switch: Touch DIM®.

OSRAM has come up with a cost-effective idea for providing simple lighting control with DALI® ECGs. A new function has been added to DALI® ECGs: Touch DIM®.

Dimming with line voltage.
With Touch DIM® it is now possible to dim and switch the control gears directly with line voltage at the DALI® control terminals. There is no longer any need for a separate controller, as the ECG itself acts as the controller.

The benefits of Touch DIM®:
• Standard switches can be used
• Radio version for flexible upgrade solutions
• Switch-on value can be saved in the ECG by double-clicking
• Suitable for fluorescent lamps, LV halogen lamps, and LED modules
• Versions: Touch DIM®, Touch DIM® Remote, Touch DIM® Sensor

Photo: © Waldmann

Touch DIM® – Dimming without a dimmer switch.

Applications:
- Simple manual dimming using conventional switches
- For individual offices or small conference rooms

Technical attributes:
- Maximum total control cable length 25 m
- Extendable by respectively 64 ECGs and a cable length of 300 m with the DALI® Repeater (cascadable system size)
- 2 mA control current per ECG
- Double-click to save switch-on value

Optional: DALI® REPEATER

Dimmable 1…100 % Dimmable 0,2…100 % Dimmable 0,2…100 %

DALI

Up to 6 QTi DALI® ECGs   Up to 6 HTi DALI® ECGs   Up to 6 OTi DALI® ECGs   Up to 64 DALI® ECGs
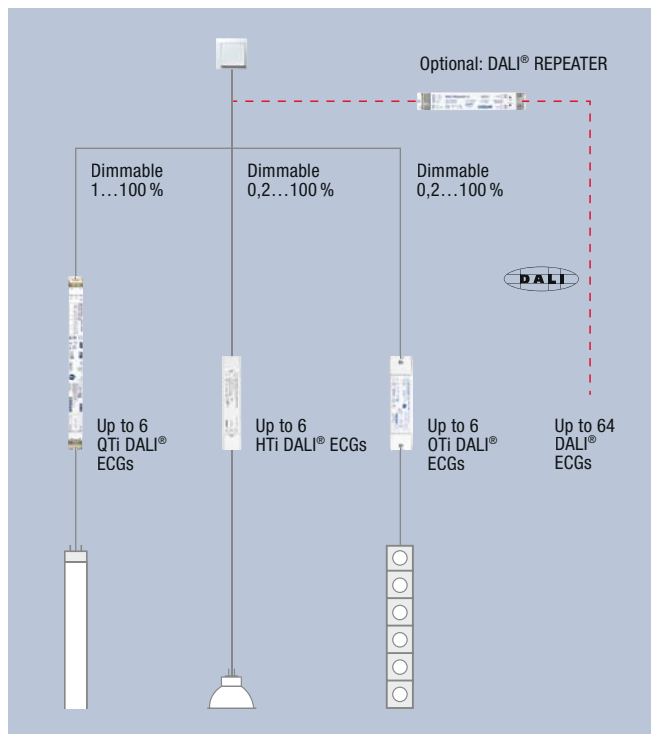
Products:
- QTi DALI® ECG for fluorescent lamps
- HTi DALI® ECG for LV halogen lamps
- OTi DALI® ECG for LED modules

Touch DIM® Sensor – for intelligent single luminaires.

Applications:
- Daylight-dependent control with presence function and combination option for individual adjustment of the lighting level
- For intelligent luminaires

Technical attributes:
- Compact dimensions for unobtrusive installation of luminaires
- A set point for daylight-dependent control can be stored by double-clicking
- TOUCH DIM® Sensor available purely as a light sensor, purely as a presence sensor with 4 different sensor elements, or as a combination sensor for light and presence
- Stand-by consumption < 0.5 W

Light and presence sensor

Dimmable 1…100 % Dimmable 0,2…100 % Dimmable 0,2…100 %

Up to 4 QTi DALI® ECGs   Up to 4 HTi DALI® ECGs   Up to 4 OTi DALI® ECGs
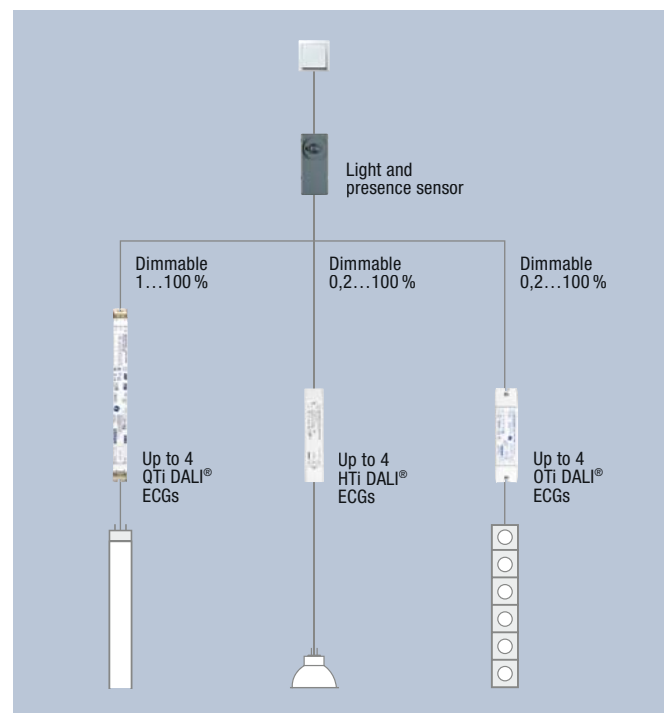
Products:
- QTi DALI®/HTi DALI®/OTi DALI® ECG
- Touch DIM® LS/PD LI luminaire installation sensor

TOUCH DIM® LS/PD LI – Light and presence sensor, luminaire installation.

STAND-BY < 0.5 W

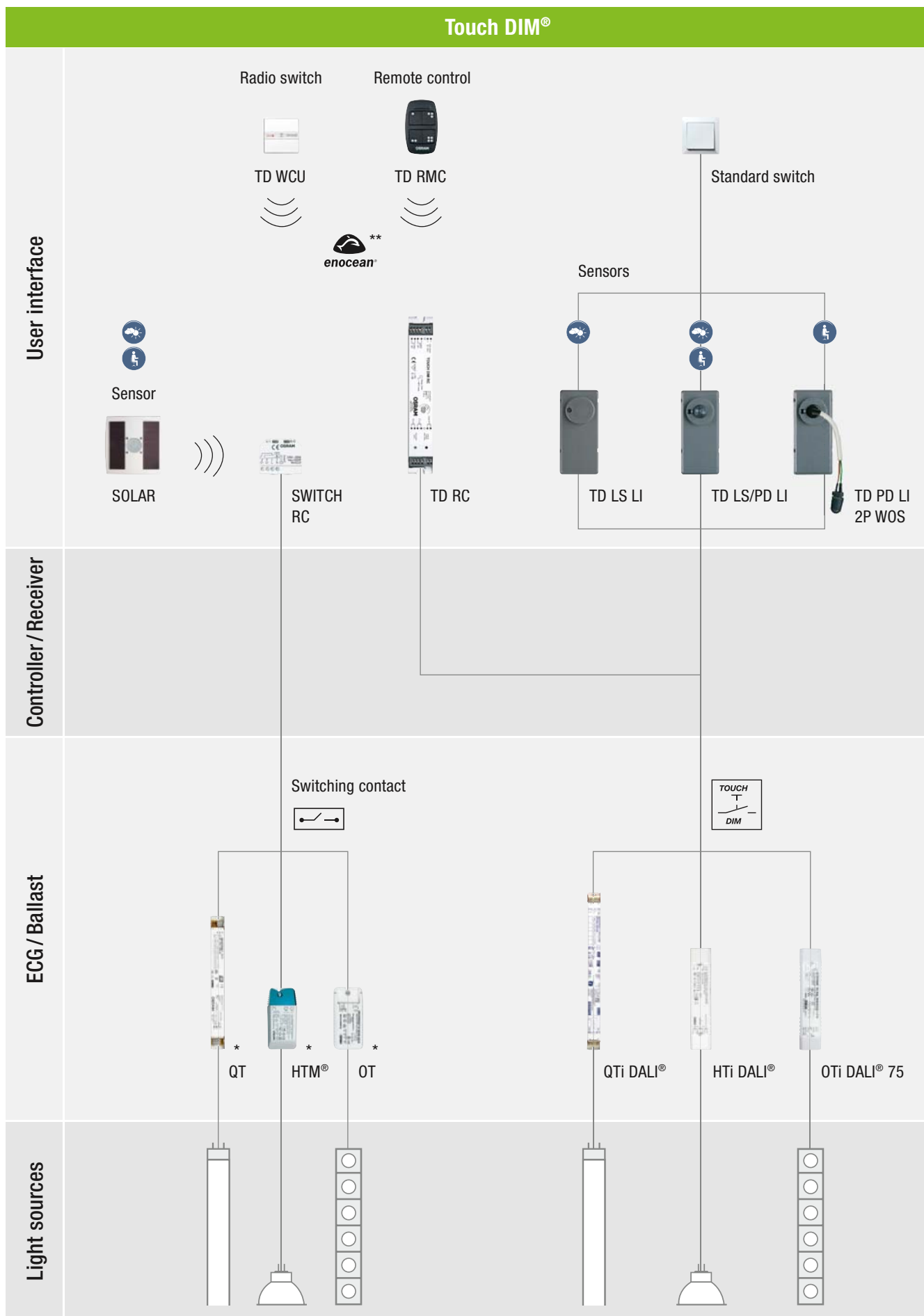- Light and presence sensor
- Can also operate purely as a presence sensor
- Signal line length: max. 10 m
- Power draw: max. 0.5 W
- Delay time: 15 min
- A set point for daylight-dependent control can be stored by double-clicking
- Approx. 80° angle of detection, detection area max. diameter 5 m, max. 5 m installation height
- Operated via standard switches
- Up to 4 QTi DALI® ECGs or 4 HTi DALI® ECGs or 4 OTI DALI® ECGs can be connected

TOUCH DIM® LS LI – Light sensor, luminaire installation.

STAND-BY < 0.5 W

- Light sensor
- Signal line length: max. 10 m
- Power draw: max. 0.5 W
- A set point for daylight-dependent control can be stored by double-clicking
- Operated via standard switches
- max. 4 m installation height
- Up to 4 QTi DALI® ECGs or 4 HTi DALI® ECGs or 4 OTI DALI® ECGs can be connected

TOUCH DIM® PD LI 2P WOS – Presence sensor.

STAND-BY < 0.5 W

- Presence sensor with sensor head extension: 25 cm
- Different sensor elements available: spot type, 5 m type, 10 m type, type for small movements
- Signal line length: max. 10 m
- Power draw: max. 0.5 W
- Delay time: 15 min
- Operated via standard switches
- Angle of detection, detection area, and max. installation height dependent on sensor element selected
- Up to 4 QTi DALI® ECGs or 4 HTi DALI® ECGs or 4 OTI DALI® ECGs can be connected

Touch DIM®

User interface

Radio switch

Remote control

TD WCU

TD RMC

enocean® **

Standard switch

Sensors

Sensor

SOLAR

SWITCH RC

TD RC

TD LS LI

TD LS/PD LI

TD PD LI 2P WOS

Controller / Receiver

ECG / Ballast

Switching contact

TOUCH
DIM

QT *

HTM® *

OT *

QTi DALI®

HTi DALI®

OTi DALI® 75

Light sources

Additional information on all radio products can be found in the brochure "Components"

* Non-dimmable QT, HT, and OT electronic control gears
** Battery-less radio standard

Clever system for single and group offices: MULTIeco.

The compact modular light management system MULTIeco offers varied daylight-dependent and presence-dependent lighting control with minimal standby consumtion power.

The right solution for every need.
MULTIeco is extremely versatile. The controller is available in a DALI® version, a 1…10 V version, and a switching version. There are also six different light and presence sensors for luminaire and ceiling installation. Possible applications include offices, restrooms, and common areas.

The benefits of MULTIeco:
- Standby consumption < 0.5 W
- Luminaire integration or independent mounting with ECO CI KIT
- Control of up to 20 ECGs
- Extremely compact dimensions
- Already meets the Swiss MINERGIE® Directive and the EU Ecodesign Specifications planned for 2012

DALI® MULTIeco in the office.

Energy-efficient light management for offices.
Simple operation and versatile functions make DALI®
MULTIeco an ideal light control system for office areas.
The perfect solution here is a daylight-dependent control
combined with presence detection. The 50 mm small mini
ceiling installation sensor for light and presence detection

do not interfere with the ceiling look or the architecture of
the room. The controller can be installed in the intermediate
ceiling, in the small distributor, or directly in the luminaire.
The entire installation is extremely simple and can also be
done afterwards.
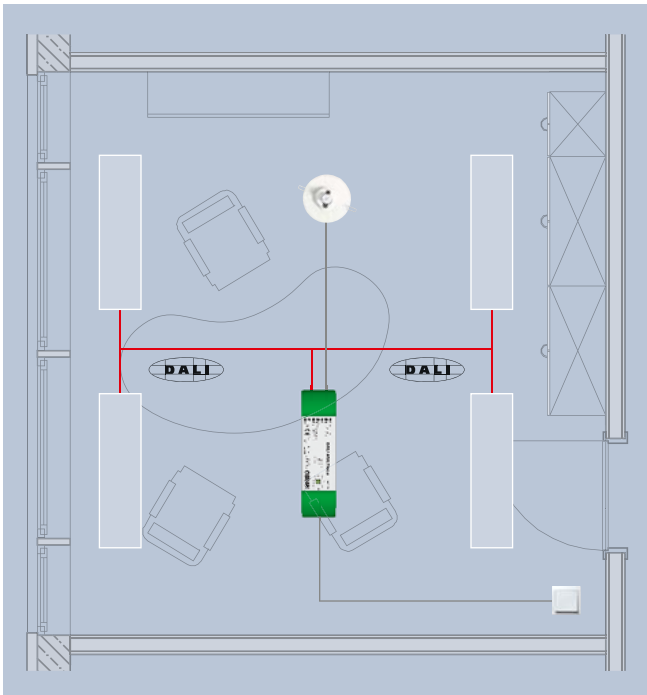
Produkte:
• DALI® MULTIeco controller
• ECO CI KIT
• LS/PD MULTI 3 CI ceiling installation sensor

DALI® MULTIeco.

- Up to 75 %* energy savings compared to conventional solutions
- 14 different operating modes can be set over DIP switches

DIM MULTIeco.

- Up to 75 %* energy savings compared to conventional solutions
- 14 different operating modes can be set over DIP switches

MULTIeco.

- Up to 45 %* energy savings compared to conventional solutions
- 8 different operating modes can be set over DIP switches
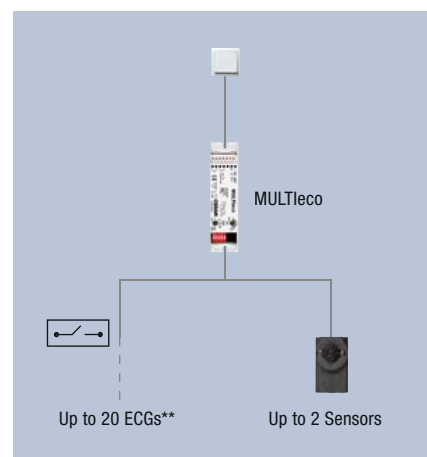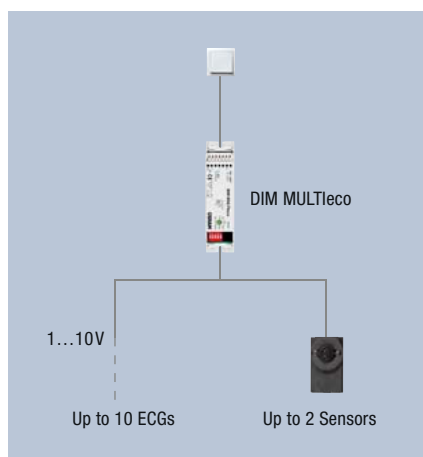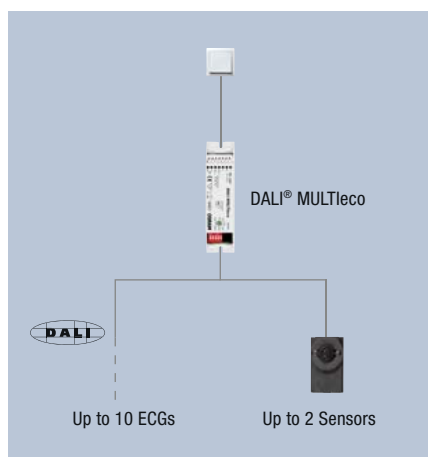
DALI® MULTIeco

DALI

Up to 10 ECGs   Up to 2 Sensors

DIM MULTIeco

1…10V

Up to 10 ECGs   Up to 2 Sensors

MULTIeco

Up to 20 ECGs**   Up to 2 Sensors

Connectable sensors (see also page 10)

| LS/PD MULTI 3 FL | LS/PD MULTI 3 | LS/PD MULTI 3 B | LS/PD MULTI 3 CI | LS/PD MULTI 3 A | LS/PD MULTI 3 A-W |

* Compared to conventional systems: T8 lamp, conventional control gear, no sensors
** Taking into consideration the load capacity of the switching contact

LS/PD MULTI 3 – Light and presence sensor, luminaire installation.

- Connection via modular 4p4c connector
- Connecting cable length: 2.1 m (detachable)
- Approx. 80° angle of detection, detection area max. diameter 5 m, max. 4 m installation height

LS/PD MULTI 3 FL – Light and presence sensor, luminaire installation, flat.

- Low-profile casing design
- Connection via modular 4p4c connector
- Connecting cable length: 2.1 m (permanently connected)
- Approx. 80° angle of detection, detection area max. diameter 5 m, max. 4 m installation height

LS/PD MULTI 3 B – Light and presence sensor, luminaire installation, moveable.

- Moveable sensor head
- Connection via modular 4p4c connector
- Connecting cable length: 2.1 m (permanently connected)
- Approx. 80° angle of detection, detection area max. diameter 5 m, max. 4 m installation height

LS/PD MULTI 3 CI – Light and presence sensor, ceiling installation, moveable.

- Ceiling installation sensor with moveable sensor head
- Connection via modular 4p4c connector/screw terminals
- Surface mounting with SENSOR KIT
- Approx. 80° angle of detection, detection area max. diameter 5 m, max. 4 m installation height

LS/PD MULTI 3 A – Light and presence sensor, luminaire installation, pluggable.

- Luminaire mounting possible via optional clip
- Connection via modular 4p4c connector
- Connecting cable length: 2.1 m (detachable)
- Approx. 80° angle of detection, detection area max. diameter 5 m, max. 4 m installation height

LS/PD MULTI 3 A-W – Light and presence sensor, luminaire installation, pluggable, white.

- Luminaire mounting possible via provided clip
- Connection via modular 4p4c connector
- High-temperature cable (125°), white, connecting cable length: 2.1 m (detachable)
- Approx. 80° angle of detection, detection area max. diameter 5 m, max. 4 m installation height

DALI® MULTIeco controller.

- Suitable for daylight-dependent control with presence function
- Standby consumption: max. 0.5 W
- Integrated load contact for disconnection
- Complies with MINERGIE® and EU Ecodesign requirements planned for 2012
- 14 different operating modes can be set up via DIP switches for daylight-dependent and presence-dependent lighting control
- Independent installation possible with ECO CI KIT
- Up to 2 sensors can be connected (compatible with all MULTI 3 sensors)
- Up to 10 DALI® ECGs can be connected
- Potential energy savings of up to 75 %*

DIM MULTIeco controller.

- Suitable for daylight-dependent control with presence function
- Standby consumption: max. 0.5 W
- Integrated load contact for disconnection
- Complies with MINERGIE® and EU Ecodesign requirements planned for 2012
- 14 different operating modes can be set up via DIP switches for daylight-dependent and presence-dependent lighting control
- Independent installation possible with ECO CI KIT
- Up to 2 sensors can be connected (compatible with all MULTI 3 sensors)
- Up to 10 1…10-V ECGs can be connected
- Potential energy savings of up to 75 %*

MULTIeco controller.

STAND-BY < 0.5 W

- Suitable for daylight-dependent control with presence function
- Standby consumption: max. 0.5 W
- Integrated load contact
- Complies with MINERGIE® and EU Ecodesign requirements planned for 2012
- 8 different operating modes can be set up via DIP switches for daylight-dependent and presence-dependent lighting control
- Independent installation possible with ECO CI KIT
- Up to 2 sensors can be connected (compatible with all MULTI 3 sensors)
- Up to 20 ECGs can be connected (if the contact load capacity is exceeded, an external power relay is required)
- Potential energy savings of up to 45 %*

SENSOR KIT – Adapter for surface mounting.

- Adapter for surface mounting the EASY IR CI receiver element
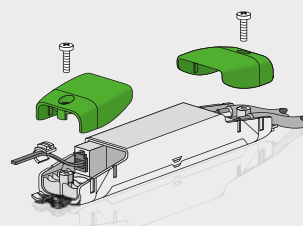
ECO CI KIT – Installation kit.

- Can be used for separate mounting of all OSRAM controllers measuring 118 × 30 × 21 mm (L × W × H)

* Compared to conventional systems: T8 lamp, conventional control gear, no sensors

MULTIeco

User interface

Standard switch

Sensors

| LS/PD MULTI 3 | LS/PD MULTI 3 FL | LS/PD MULTI 3 B | LS/PD MULTI 3 CI | LS/PD MULTI 3 A | LS/PD MULTI 3 A-W |

Controller / Receiver

DALI® MULTIeco   DIM MULTIeco   MULTIeco

DALI

1...10 V DIM

Switching contact

ECG / Ballast

| QTi DALI® | HTi DALI® | OTi DALI® 75 | QTi DIM | HT 1…10 V | OT DIM ** | QT * | OT * |

Light sources

* Non-dimmable QT, HT, and OT electronic control gears   ** Suitable power supply required
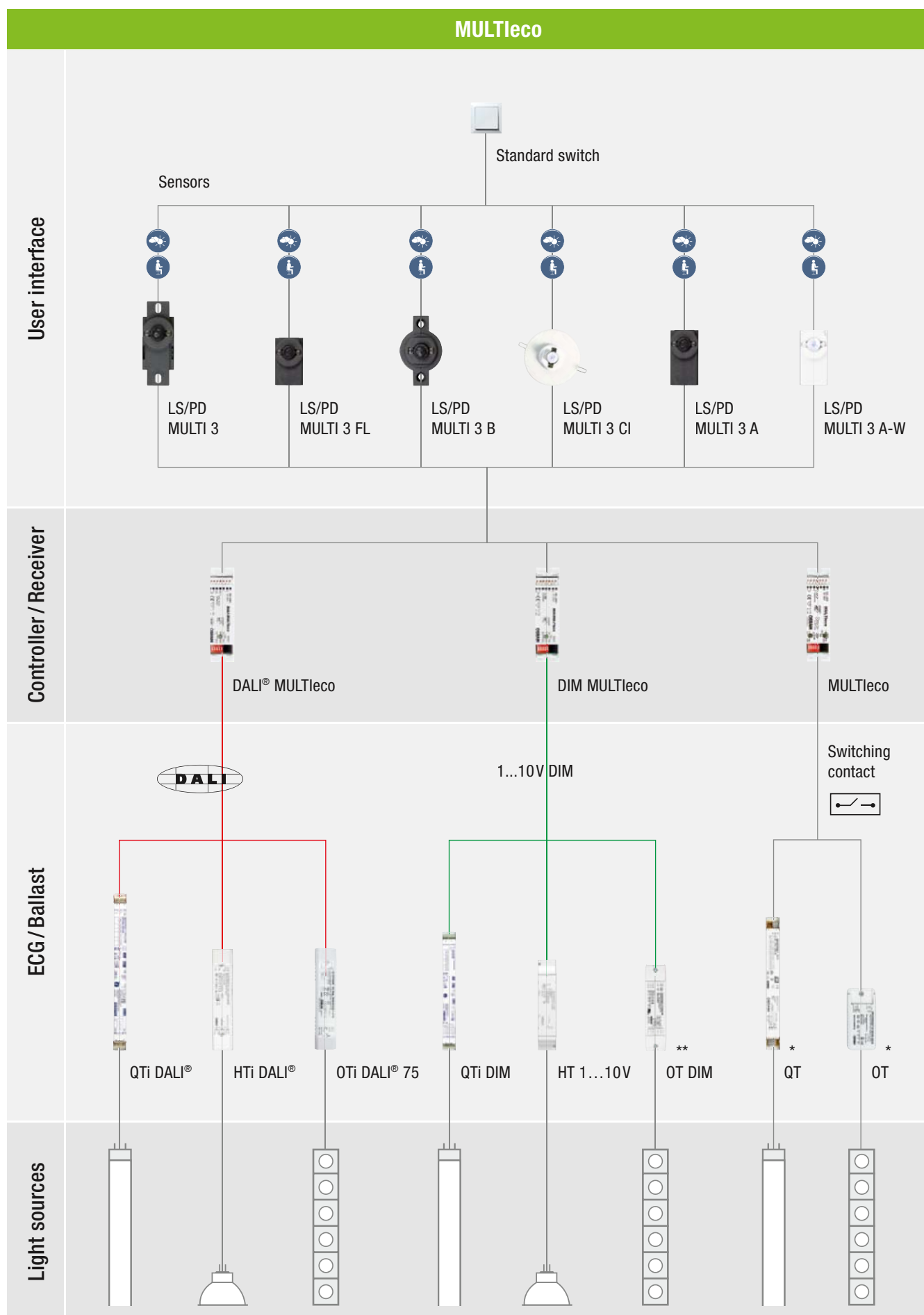
Flexible and powerful:
Light group control with MULTI 3.

With its sophisticated functions and modular design, the MULTI 3 system offers versatile design options for intelligent and cost-effective energy-saving solutions.

New standards.
With a height of only 21 mm, the MULTI 3 controller now has an even lower profile. It therefore complies with the standard dimensions for T5 ECGs and is ideal for installation in ceilings.

Remarkably unobtrusive.
The ceiling sensor in the MULTI 3 system has a diameter of only 50 mm and can be installed inconspicuously almost anywhere with no loss of functionality. Other light and presence sensors are available to extend the system.

Simple setup.
The system can be installed very quickly and is immediately ready for use.

Versatile modular system.
With only a few components you can create solutions with MULTI 3 for luminaire groups and strip lighting in open-plan offices.

DALI® MULTI 3.

- Up to 70 %* energy savings compared with conventional solutions
- Choice of 10 different operating modes

DALI® MULTI 3

DALI

Up to 32 ECGs   Up to 4 sensors

DIM MULTI 3.

- Up to 70 %* energy savings compared with conventional solutions
- Choice of 10 different operating modes

DIM MULTI 3

1…10V

Up to 32 ECGs   Up to 4 sensors
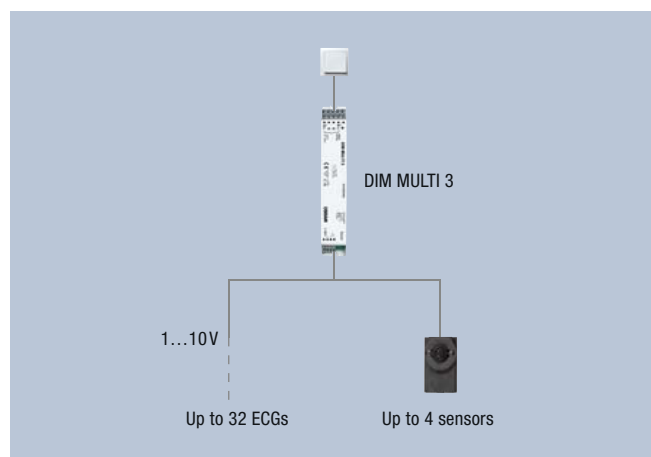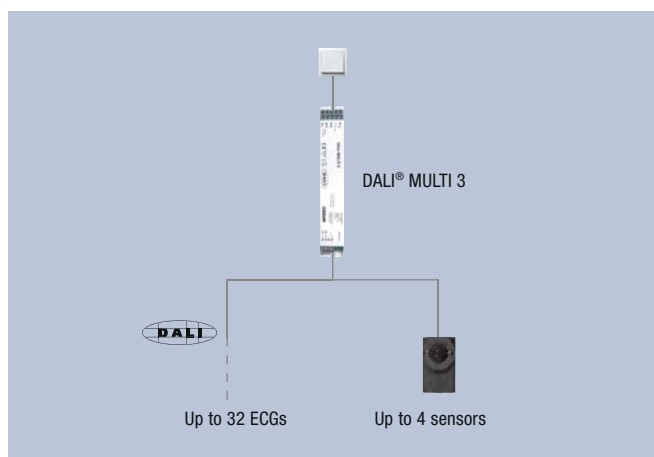
Connectable sensors (see also page 10)

LS/PD MULTI 3 FL   LS/PD MULTI 3   LS/PD MULTI 3 B   LS/PD MULTI 3 CI   LS/PD MULTI 3 A   LS/PD MULTI 3 A-W

* Compared to conventional systems: T8 lamp, conventional control gear, no sensors

DALI® MULTI 3 in strip lights.

Intelligent energy-efficient luminaires and luminaire groups.

Daylight-dependent control combined with a presence function can also be provided for strip lights. DALI® MULTI 3 allows new freedom in luminaire design: with their minimal dimensions, the sensors are easy to integrate while retaining maximum functionality. The sensors can simply be connected in parallel to enlarge the area.

Strip light 1   Strip light 2   Strip light 3
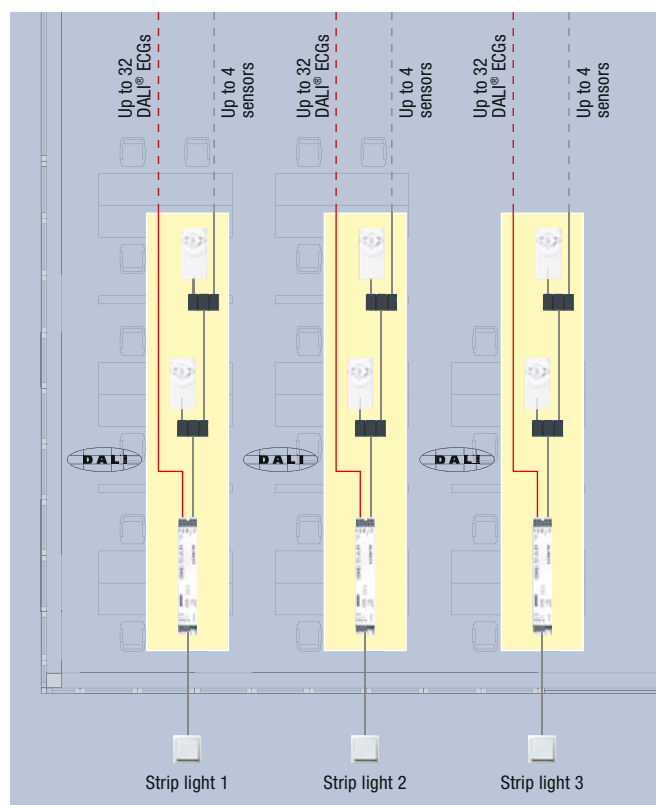
Products:

- DALI® MULTI 3 controller
- QTi DALI® ECG
- LS/PD MULTI 3 A-W luminaire installation sensor
- Optional: Y-connector

DALI® MULTI 3 in open-plan offices.

Thanks to its modular design, DALI® MULTI 3 can also be used in large areas, such as group and open-plan offices.

Up to four lighting groups can be synchronized with one another, so that up to 16 light and presence sensors can capture a larger area. Just like the smaller solutions for individual offices, this entire light management system can be unobtrusively integrated into the existing architecture of the room.

Group A   Group B   Group C
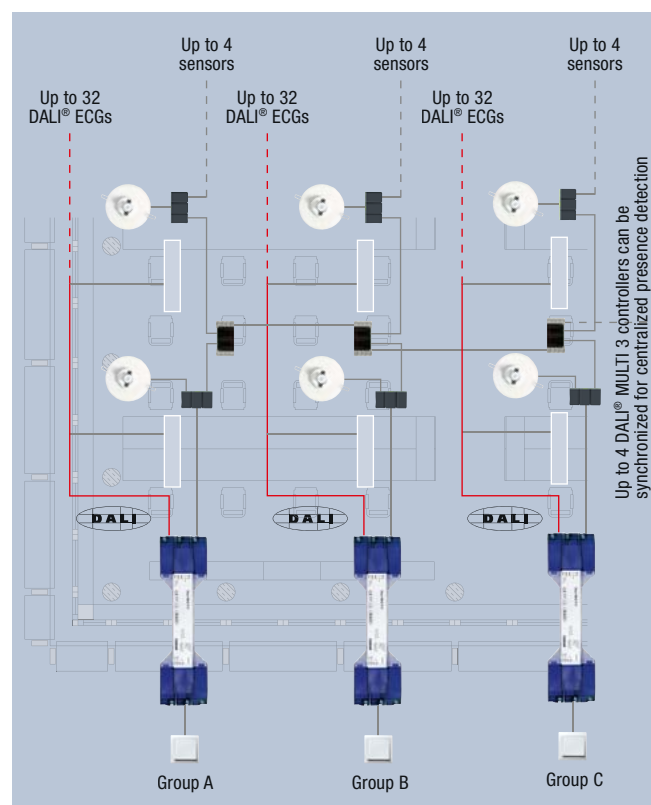
Products:

- DALI® MULTI 3 controller
- LMS CI BOX ceiling installation box
- LS/PD MULTI 3 CI ceiling installation sensor
- Y-connector

DALI® MULTI 3 controller.

- Controller for up to 32 DALI® ECGs for daylight-dependent control with presence function
- Different operating modes depending on the application
- 21 mm height for simple installation in luminaires; ceiling installation with LMS CI Box
- Sensor connection via modular 4p4c socket
- Up to 70 %* energy savings

DIM MULTI 3 controller.

- Controller for up to 32 DALI® 1…10-V ECGs for daylight-dependent control with presence function
- Different operating modes depending on the application
- 21 mm height for simple installation in luminaires; ceiling installation with LMS CI Box
- Sensor connection via modular 4p4c socket
- Up to 70 %* energy savings

Y-CONNECTOR.

- Y-connector for system expansion with 2 ready-made modular 4p4c cables (2 m)
- Allows the detection range to be expanded by connecting additional sensors

Y-CONNECTOR SCREW – Y-Connector with screw terminals.

- Allows synchronization of multiple MULTI 3 or MULTIeco controllers for central presence detection
- 2 ready-made modular 4p4c cables (2 m) included

LMS CI BOX – Ceiling installation box for controller.

- LMS CI Box for ceiling mounting of the radio receiver and also for MULTI 3 controllers

SENSOR KIT – Adapter for surface mounting.

- Adapter for surface mounting the EASY IR CI receiver element

* Compared to conventional systems: T8 lamp, conventional control gear, no sensors

MULTI 3

User interface

Sensors

Standard switch

LS/PD
MULTI 3

LS/PD
MULTI 3 FL

LS/PD
MULTI 3 B

LS/PD
MULTI 3 CI

LS/PD
MULTI 3 A

LS/PD
MULTI 3 A-W

Controller / Receiver

DALI® MULTI 3

DIM MULTI 3

ECG / Ballast

DALI

1...10 V DIM

QTi DALI®

HTi DALI®

OTi DALI® 75

QTi DIM

HT 1…10 V

OT DIM

*

Light sources
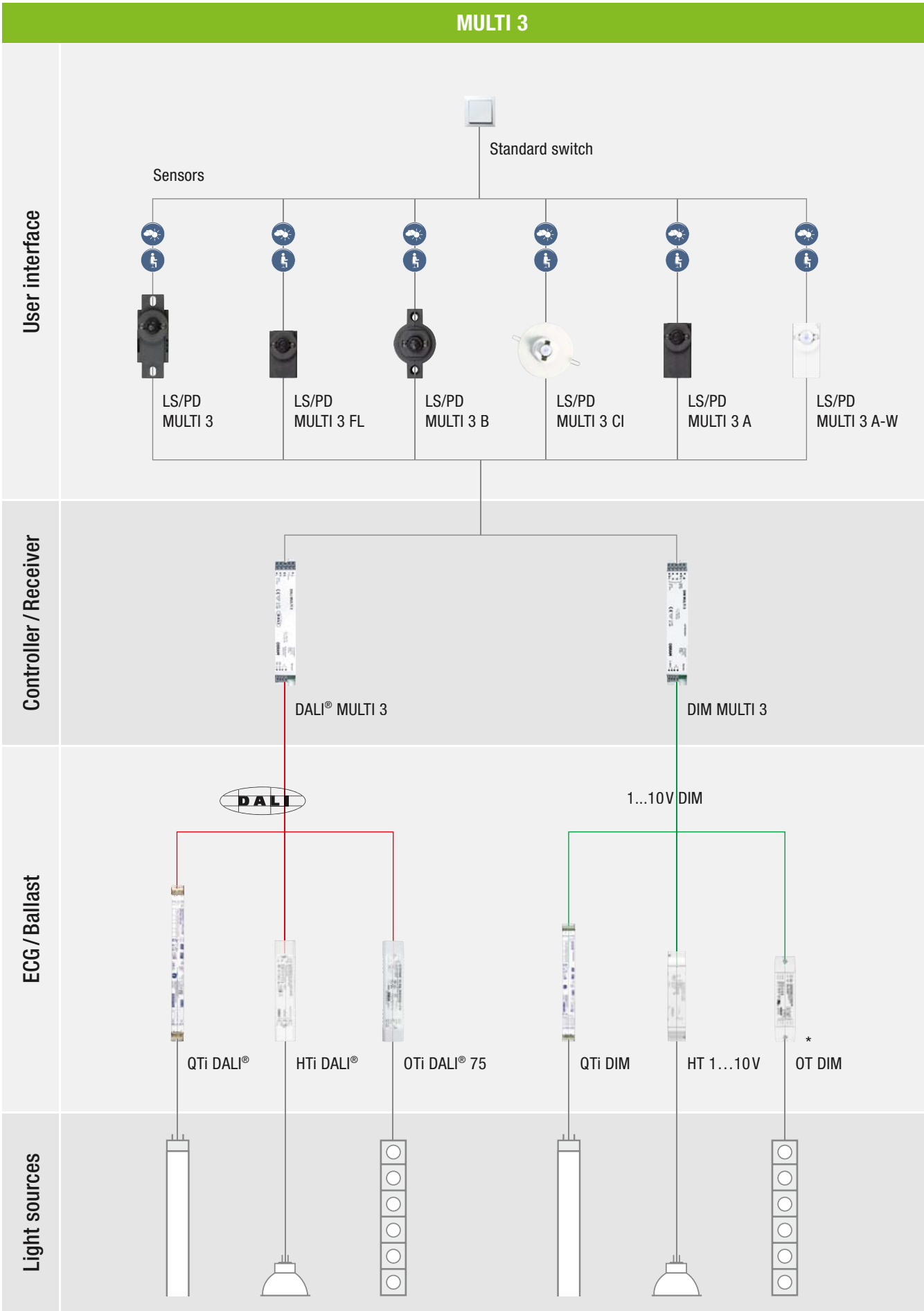
* Suitable power supply required

Stand-alone sensors for autonomous use as starting point for energy-saving lighting.

Thanks to their ease of installation, stand-alone sensors offer especially cost-effective energy saving solutions and are ideal for retrofitting.

Modern, easy-to-install sensors for a wide variety of applications.
OSRAM offers a large number of innovative sensors for indoor and outdoor use. They provide the basis for energy savings of up to 70 %* and are particularly easy to install or retrofit.

* Compared to conventional systems: T8 lamp, conventional control gear, no sensors

- Offices: single and group workplaces
- Waiting rooms and conference rooms
- Hallways and foyers
- Stairwells
- Retail and commercial areas
- Restrooms and washrooms
- Factories and warehouses
- Single luminaires
- Strip lighting

Light and presence sensors.

SOLAR light and presence sensor.
- Suitable for flexible and cable-less installations (e. g. offices, historic buildings, hallways, etc.)
- No cables or batteries: maintenance-free EnOcean radio technology
- Control of the radio receiver SWITCH RC
- Radio range 30 to 100 m depending on local circumstances
- Approx. 100° detection angle, detection area: max. diameter 9 m, max. installation height 4 m
- Upgrade/retrofit of existing lighting systems or integration in new systems
- Choice of different function modes – semi and fully automatic
- Potential energy savings of up to 45 %*

DUO light and presence sensor.
- Suitable for such areas as hallways, waiting rooms, and wash rooms
- Choice of different operating modes: daylight detection only, presence detection only, daylight and presence detection
- All the functions can be selected on the rotary switch on the front of the casing and DIP switches in the casing
- Minimal installation costs due to surface mounting or simple clip-on installation for T5 (diameter 16 mm) or T8 (diameter 26 mm) fluorescent lamps
- Up to 30 ECGs can be connected
- Adjustable switch-off delay: 1 min to 60 min
- Standby consumption: max. 0.7 W
- Load capacity of switching contact: 5 A ohmic load
- Multiple sensors can be networked
- Approx. 110° detection angle, detection area: max. diameter 12 m, max. installation height 5 m
- Potential energy savings of up to 45 %*

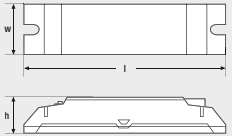**DIM MULTI light and presence sensor.**
- Suitable for such areas as individual and group offices
- 1…10-V sensor for daylight-dependent and presence-dependent control
- For ceiling surface mounting and simple clip-on installation for T5 (diameter 16 mm) or T8 (diameter 26 mm) fluorescent lamps
- Choice of different operating modes: daylight detection only, daylight and presence detection
- Approx. 110° detection angle, detection area: max. diameter 12 m, max. installation height 5 m
- All the functions can be selected on the rotary switch and pushbutton on the front of the casing
- Up to 30 ECGs can be connected
- Adjustable switch-off delay: 1 to 30 min + 10 min switch-off time
- Compensates for 100 % of the incoming daylight
- Load capacity of switching contact: 5 A ohmic load
- Multiple sensors can be networked
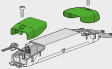- Potential energy savings of up to 70 %*

* Compared to conventional systems: T8 lamp, conventional control gear, no sensors

Light and motion sensors.

WALL SWITCH light and motion sensor with flush-mount relay insert.
- Suitable for touch-free switching
  (e. g. hallways, stairwells)
- Choice of different operating modes: stairwell,
  time switch, constant light
- Can be combined with conventional light switches
- Can be installed in standard wall flush-mount boxes
- Manual constant light can be activated
- Up to 14 ECGs can be connected
- Delay time can be adjusted to any length
  up to 30 minutes
- Multiple sensors can be networked
- Approx. 180° detection angle, detection area max.
  diameter 8 m, max. installation height 2 m
- Potential energy savings of up to 45 %*

OUTDOOR light and motion sensor.
- Suitable for outdoor applications
- Choice of different operating modes:
  motion detection only, daylight and motion detection
- Adjustable switch-off delay: 5 seconds to 30 minutes
- Up to 14 ECGs can be connected
- Manual control with optional switch or pushbutton
- Swivel arm for wall or ceiling mounting
- Approx. 120° detection angle, detection area
  max. diameter 16 m, max. installation height 4 m
- Potential energy savings of up to 45 %*

Light sensors.

DIM PICO light sensor.
- Suitable for individual luminaires in single and small
  group offices
- 1…10-V mini light sensor for simple retrofitting
- Direct connection to the 1…10-V interface
- Simple clip-on installation for T5 (diameter 16 mm) or
  T8 (diameter 26 mm) fluorescent lamps
- Simple setting of the set point using a potentiometer
- Load capacity of the control output: max. 10 1…10-V
  ECGs or max. 6 mA
- Cable length: 700 mm
- Compensates for 50 % of the incoming daylight
- Approx. 50° detection angle, max. installation height 5 m
- Potential energy savings of up to 30 %*

DIM MICO light sensor.
- Suitable for strip lights in individual and group offices
- 1…10-V mini light sensor for simple retrofitting
- Direct connection to the 1…10-V interface
- Simple clip-on installation for T5 (diameter 16 mm) or
  T8 (diameter 26 mm) fluorescent lamps
- Simple setting of the set point using a potentiometer
- Load capacity of the control output: max. 10 1…10-V
  ECGs or max. 16 signal amplifiers
- Cable length: 700 mm
- Compensates for 100 % of the incoming daylight
- Approx. 80° detection angle,
  max. installation height 8 m
- Potential energy savings of up to 40 %*

Motion sensors.

HIGH BAY motion sensor.
- Suitable for great installation heights
  (factories, warehouses, sports facilities)
- 3 m to 10 m: detection of motion by people
- 3 m to 13 m: detection of vehicle movement
  (e.g. fork lift truck)
- Adjustable switch-off delay: 30 seconds to 20 minutes
- Surface mounting for low installation costs
- Up to 15 ECGs can be connected
- Standby consumption: max. 0.5 W
- Can be surface-mounted on ceilings using a
  mounting adapter
- Approx. 100° detection angle, detection area
  max. diameter 18 m, max. installation height 13 m
- Potential energy savings of up to 35 %*
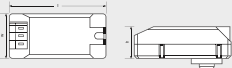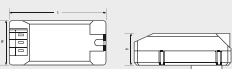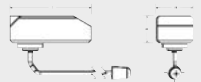
VISION motion sensor.
- Suitable for large areas, e.g. open-plan offices,
  hallways, and storage rooms
- Adjustable switch-off delay: 30 seconds to 20 minutes
- Surface mounting for low installation costs
- Up to 15 ECGs can be connected
- Standby consumption: max. 0.5 W
- Can be surface-mounted on ceilings using
  a mounting adapter
- Approx. 140° detection angle, detection area
  max. diameter 21 m, max. installation height 4.5 m
- Potential energy savings of up to 35 %*
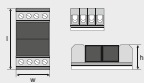
* Compared to conventional systems: T8 lamp, conventional control gear, no sensors

Stand-alone sensors

User interface

Switch

Sensors

Sensors

| HIGH BAY | WALL SWITCH | VISION | OUT-DOOR | DUO | DIM MULTI | DIM PICO | DIM MICO |

Controller / Receiver

ECG / Ballast

Switching contact

1...10 V DIM

| QT | HTM® | OT | QTi DIM | HT 1…10V | OT DIM |
| * | * | * | | | ** |

Light sources

* Non-dimmable QT, HT, and OT electronic control gears   ** Suitable power supply required
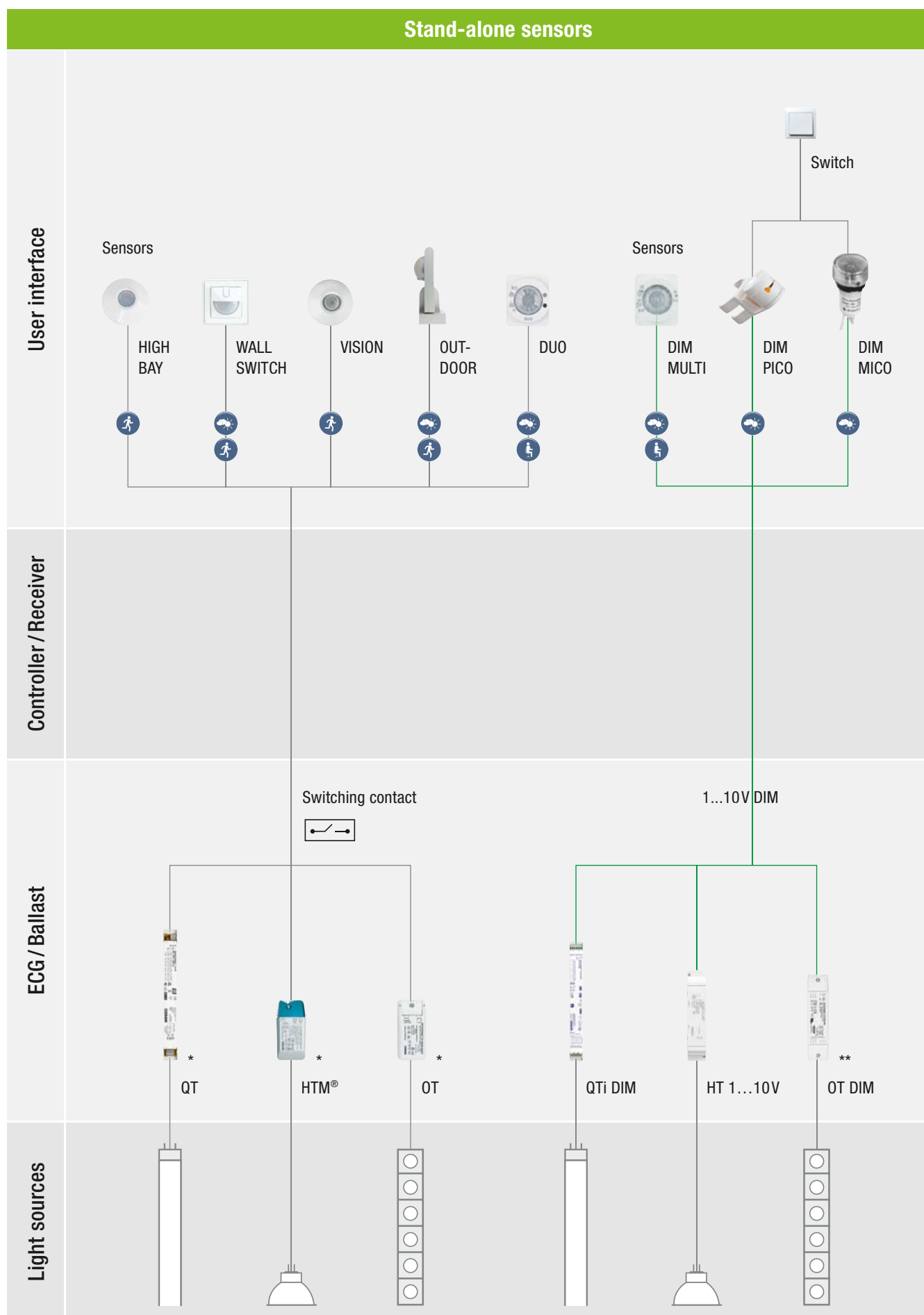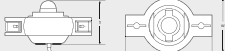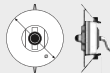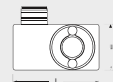
Touch DIM®

Graphic	Technical drawing	Product description	Order description	Product number	Dimensions
		Light and presence sensor, luminaire installation	Touch DIM® LS/PD LI	4008321**023025**	63 × 29 × 21 mm (L × W × H)
		Light sensor, luminaire installation	Touch DIM® LS LI	4008321**023087**	63 × 29 × 21 mm (L × W × H)
		Presence sensor	TD PD LI 2P WOS	4008321**532954**	63 × 29 × 21 mm (L × W × H)
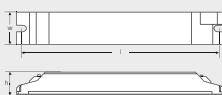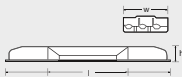
MULTIeco

Graphic	Technical drawing	Product description	Order description	Product number	Dimensions
		Controller	DALI® MULTIeco	4008321**371300**	118 × 30 × 21 mm (L × W × H)
		Controller	MULTIeco	4008321**405302**	118 × 30 × 21 mm (L × W × H)
		Controller	DIM MULTIeco	4008321**507273**	118 × 30 × 21 mm (L × W × H)
		Y-connector	Y-CONNECTOR	4050300**803135**	34 × 18 × 16 mm (L × W × H)
		Y-connector incl. screw terminals	Y-CONNECTOR SCREW	4008321**916686**	40 × 20 × 16 mm (L × W × H)
	———	Installation kit	ECO CI KIT	4008321**392091**	———
		Adapter for surface mounting	SENSOR KIT	4008321**916662**	80 × 25 mm (Ø × H)
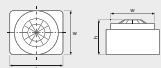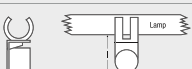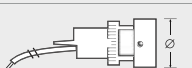
Sensors for MULTIeco/MULTI 3

Graphic	Technical drawing	Product description	Order description	Product number	Dimensions
		Light and presence sensor, luminaire installation, standard	LS/PD MULTI 3	4050300**802138**	55 × 21 × 25 mm (L × W × H)
		Light and presence sensor, luminaire installation, flat	LS/PD MULTI 3 FL	4050300**047342**	35 × 21 × 12 mm (L × W × H)
		Light and presence sensor, luminaire installation, moveable	LS/PD MULTI 3 B	4050300**803081**	48 × 30 × 25 mm (L × W × H)
		Light and presence sensor, ceiling installation, moveable	LS/PD MULTI 3 CI	4008321**916648**	50 × 25 mm (Ø × H)
		Light and presence sensor, luminaire installation/ mounting	LS/PD MULTI 3 A	4008321**653598**	38 × 20 × 22 mm (L × W × H)
		Light and presence sensor, luminaire installation/ mounting white	LS/PD MULTI 3 A-W	4008321**653611**	38 × 20 × 22 mm (L × W × H)

MULTI 3

Graphic	Technical drawing	Product description	Order description	Product number	Dimensions
		Controller	DALI® MULTI 3	4050300**802084**	189 × 30 × 21 mm (L × W × H)
		Controller	DIM MULTI 3	4050300**802107**	189 × 30 × 21 mm (L × W × H)
		Y-connector	Y-CONNECTOR	4050300**803135**	34 × 18 × 16 mm (L × W × H)
		Y-connector incl. screw terminals	Y-CONNECTOR SCREW	4008321**916686**	40 × 20 × 16 mm (L × W × H)
		Installation kit	LMS CI BOX	4008321**083692**	261 × 71/35 × 27 mm (L × W × H)
		Adapter for surface mounting	SENSOR KIT	4008321**916662**	80 × 25 mm (Ø × H)

Stand-alone sensors

Graphic	Technical drawing	Product description	Order description	Product number	Dimensions
		Light and presence sensor	SOLAR	4008321**385628**	108 × 108 × 26 mm (L × W × H)
		Light and presence sensor	DUO	4008321**496355**	71 × 58 × 47 mm (L × W × H)
		Light and presence sensor	DIM MULTI	4050300**554471**	58 × 71 × 48 mm (L × W × H)
		Light and motion sensor	WALL SWITCH	4008321**467386**	82 × 82 × 26 mm (L × W × H)
		Light and motion sensor	OUTDOOR	4008321**957061**	180 × 86 × 74 mm (L × W × H)
		Motion sensor	HIGH BAY	4008321**410078**	116 × 116 × 39 mm (L × W × H)
		Motion sensor	VISION	4008321**957047**	116 × 116 × 40 mm (L × W × H)
		Light sensor	DIM PICO	4050300**554457**	21 × 21 × 31 mm (L × W × H)
		Light sensor	DIM MICO	4050300**464411**	59 × 28 × 40 mm (L × W × H)
		1-channel radio receiver	SWITCH RC	4008321**385642**	45 × 37 × 23 mm (L × W × H)
		Adapter for surface mounting for HIGH BAY and VISION	MOUNTING ADAPTER	4008321**480798**	116 × 19 mm (Ø × H)

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OSRAM offers an extensive three-stage guarantee for light management systems and
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five categories:

Energy saving
➜ For energy-saving daylight-dependent and presence-dependent lighting

Ambience
➜ EASY Color and white light control for shop and hospitality

Scenes
➜ For multifunctional management of lighting groups and lighting scenes

Components
➜ For expanding, connecting or installing light management products

Light Source Control Gears
➜ For safe, efficient and reliable lamp/luminaire operation

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Compilation of product brochures on every LMS topic, including
a poster, an application matrix and a CD-ROM, bundled in a folder.

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